



# WPI

## Illuminating Bishop Kodji, Nigeria

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The old solar power system from 2006 in Bishop Kodji from 2011.<sup>5</sup>

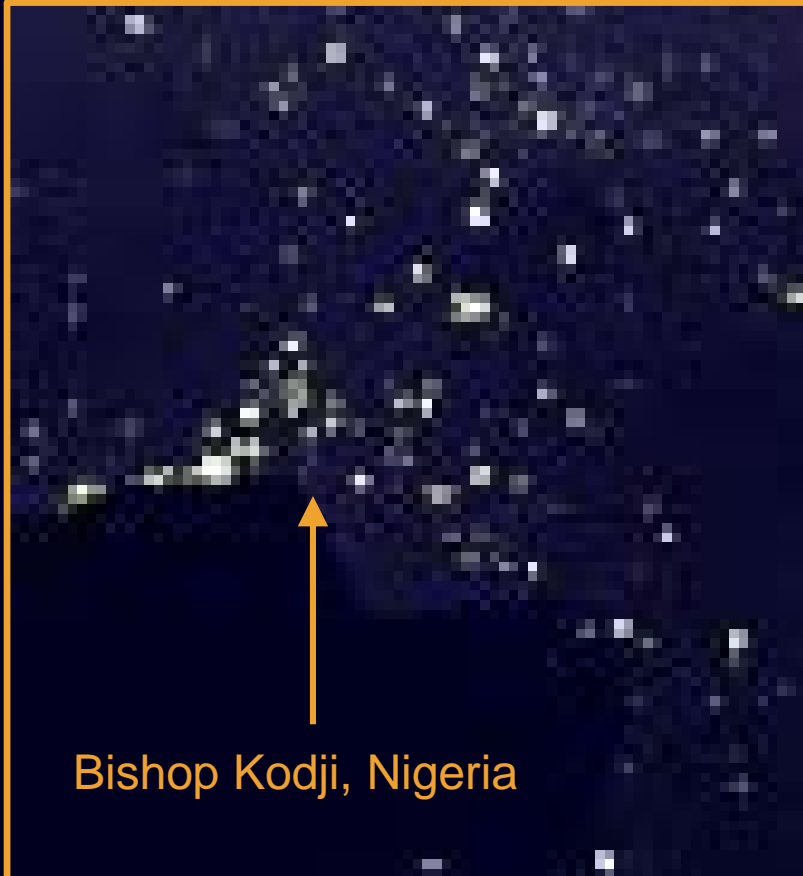
### Project Goals

- Bring sustainable, and clean energy to the village of Bishop Kodji;
- Renovate and maintain the existing solar power system;
- Educate the community in the renovation to bring about knowledge of the system;
- Allow for sustainability by teaching the community to maintain the system on their own;
- Evaluate the project over a five year span through periodic inspections, testing, and surveys.



### Background

- In 2006 a solar system was installed in Bishop Kodji by the Nigerian government;
- Months later the system failed due to ignorance on the system, causing a lack of community involvement in its maintenance;
- The people of Bishop Kodji have been using kerosene lamps to light their homes and biomass products to make food. Both of these energy sources create unhealthy conditions in the home;
- The system has been out of service since.<sup>5</sup>



### Proposed Solution

- Renovate the existing panels that were implemented by the government in 2006;<sup>5</sup>
- Reach out to community members for assistance, and find local volunteers;
- Educate volunteers in solar panel maintenance with short but informative seminars, and understandable pamphlets;
- Electricity will be used to power a local school, a community building, a clinic, a water pump, and a fish dryer. Some of these buildings will need to be further modernized;<sup>5</sup>
- Inspire volunteers to teach others, and to take ownership of the project;
- Eventually expand the project to neighboring communities and other isolated regions in need of electricity.

### Thoughts from a Citizen

“We are fisherman. We catch fish, we treat them, then we sell them to our own people. We see that the government is trying to do something for us. But we need them to do more. We need a hospital. We need a better school. And we need light.” –Anthony of Bishop Kodji<sup>5</sup>

### Expected Outcomes

- Improvements in education and healthcare;<sup>1</sup>
- General improvement of health in the household
- Higher degree of freedom and responsibility of women and children as they will be the main caretakers of the system;<sup>1</sup>
- Stimulate the economy with the new born electricity, especially the electric fish drier;<sup>5</sup>
- Prove the usefulness and sustainability of solar power.

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